Application Serial No. 09/756,485
Reply to Office Action of April 2, 2004

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1.   (previously presented)   A method for routing testing comprising:

connecting a router to be tested to a routing test system;

selecting a test mode for the routing test;

obtaining a virtual network according to the selected test mode by opening a stored virtual network, opening and editing the stored virtual network, or generating a new virtual network based on inputted network constraint information;

emulating a routing test protocol of the router under test and virtual routers of the virtual network;

transmitting a packet to a destination address in the virtual network via the router under test; and

monitoring links connected to the router under test.

2.   (currently amended)   The method according to claim 1, wherein the network constraint information comprises at least one of the a group consisting of a total number of network nodes, a total number of network links, and a total number of links coupled to the router under test.

3.   (new)   The method according to claim 1, wherein said virtual network comprises n virtual hosts and m virtual routers, and wherein at least one of m and n is greater than 0.

4.   (new)   The method according to claim 1, wherein said virtual network is generated randomly based on said inputted network constraint information.

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